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(54) Title: FIRE RESISTANT MATERIALS

(57) **Abstract:** A method for forming a fire resistant material is disclosed. The method comprises providing a plurality of expandable beads of a polymeric material. The beads are coated with an exfoliable graphite. The exfoliable graphite is adhered to the beads with a resin having a solubility parameter of the polymeric material. The beads are thereafter caused or allowed to expand and fuse.